

# TRANSMITTAL FORM

Application Serial Number	10/609,119
Filing Date	June 27, 2003
First Named Inventor	Gates
Group Art Unit	2673
Examiner Name	Not yet assigned
Attorney Docket No.	INK-109
Patent No.	Not applicable
Issue Date	Not applicable

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form  <input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____]  <input type="checkbox"/> Petition for Extension of Time  <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations: A1-A49; B1-B35; and C1-C23  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application  <input type="checkbox"/> Formal Drawing(s)  <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal  <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application  <input type="checkbox"/> Small Entity Statement  <input type="checkbox"/> CD(s) for large table or computer program  <input type="checkbox"/> Amendment After Allowance  <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences  <input type="checkbox"/> Appeal Brief (in triplicate)  <input type="checkbox"/> Status Inquiry  <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8  <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8  <input type="checkbox"/> Additional Enclosure(s) (please identify below)
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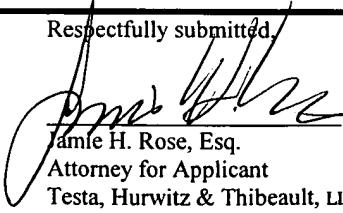
## CORRESPONDENCE ADDRESS

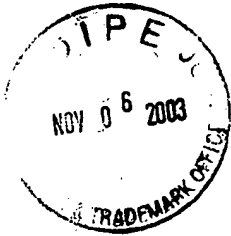
Direct all correspondence to: Patent Administrator  
Testa, Hurwitz & Thibault, LLP  
High Street Tower  
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Boston, MA 02110  
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## SIGNATURE BLOCK

Date: October 30, 2003  
Reg. No.: 45,054  
Tel. No.: (617) 248-7376  
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Respectfully submitted,

  
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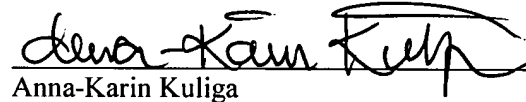
PATENT  
Attorney Docket No. INK-109

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Gates  
SERIAL NO.: 10/609,119 GROUP NO.: 2673  
FILING DATE: June 27, 2003 EXAMINER: Not yet assigned  
TITLE: Voltage Modulated Driver Circuits For Electro-Optic Displays

**CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8**

I hereby certify that this correspondence, and any documents referred to as enclosed herein, are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 30th day of October, 2003.

  
Anna-Karin Kuliga

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir/Madam:

Submitted are the following:

- (1) Transmittal Form (1 pg.);
- (3) Information Disclosure Statement (2 pgs.);
- (4) Form PTO-1449 (4 pgs.);
- (5) copy of references cited: A1-A49; B1-B35; and C1-C23; and
- (6) a return receipt postcard.



PATENT  
Attorney Docket No. INK-109

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Gates  
SERIAL NO.: 10/609,119 GROUP NO.: 2673  
FILING DATE: June 27, 2003 EXAMINER: To Be Assigned  
TITLE: *Voltage Modulated Driver Circuits for Electro-Optic Displays*

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicant hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**

- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

### STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Date: October 30, 2003  
Reg. No. 45,054

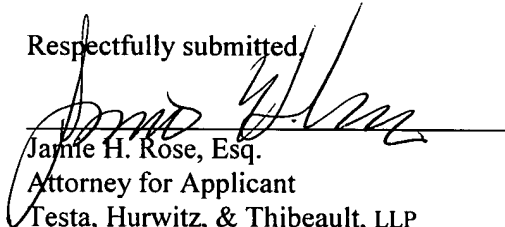
Tel. No.: (617) 248-7376  
Fax No.: (617) 790-0244

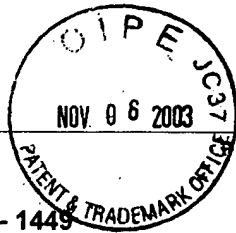
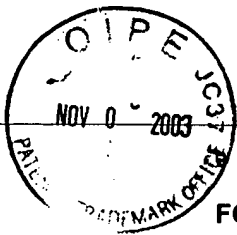
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FORM PTO - 1449

## INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: INK-109  
 APPLICANT: Gates  
 SERIAL NO.: 10/609,119  
 FILING DATE: June 27, 2003  
 GROUP: 2673

## U.S. PATENT DOCUMENTS

Exam. Init.	Patent ID	Issue Date	Inventor	Filing Date
A1	2002/0021270 A1	2/21/2002	Albert, Jonathan D.	8/16/2001
A2	3,612,758	10/12/1971	P.F. Evans et al.	10/3/1969
A3	3,972,040	7/27/1976	Hilsum, et al.	8/12/1974
A4	4,203,106	5/13/1980	Dalisa et al..	11/23/1977
A5	4,500,880	2/19/1985	Gomersall et al.	7/6/1981
A6	4,686,524	8/11/1987	White; Roger P.	11/4/1985
A7	4,821,291	4/11/1989	Stevens et al.	9/22/1986
A8	4,937,586	6/26/1990	Stevens et al.	1/6/1988
A9	4,962,466	10/9/1990	Revesz et al.	12/19/1989
A10	5,155,607	10/13/1992	Inoue et al.	3/15/1991
A11	5,179,517	1/12/1993	Sarbin; Theodore R. et al	9/22/1988
A12	5,238,861	8/24/1993	Morin et al.	5/14/1991
A13	5,254,981	10/19/1993	Disanto et al.	11/12/1992
A14	5,258,864	11/2/1993	Shannon, John M.	4/16/1992
A15	5,389,945	2/14/1995	Sheridon, Nicholas K.	11/19/1993
A16	5,402,145	3/28/1995	DiSanto et al.	2/17/1993
A17	5,467,107	11/14/1995	DiSanto et al.	9/28/1994
A18	5,528,399	6/18/1996	Izumi et al.	10/29/1993
A19	5,541,478	7/30/1996	Troxell et al.	3/4/1994
A20	5,561,443	10/1/1996	DiSanto et al. /	9/13/1994
A21	5,602,572	2/11/1997	Rylander, Richard L.	8/25/1994
A22	5,627,561	5/6/1997	Laspina et al.	4/10/1996
A23	5,641,974	6/24/1997	den Boer et al.	4/12/1996
A24	5,684,501	11/4/1997	Knapp et al.	3/10/1995
A25	5,715,026	2/3/1998	Shannon, John M.	6/7/1995
A26	5,717,515	2/10/1998	Sheridon, Nicholas K.	12/15/1995
A27	5,739,801	4/14/1998	Sheridon, Nicholas K.	12/15/1995

EXAMINER

DATE CONSIDERED

FORM PTO - 1449  
INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: INK-109  
APPLICANT: Gates  
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FILING DATE: June 27, 2003  
GROUP: 2673

## U.S. PATENT DOCUMENTS

Exam. Init.		Patent ID	Issue Date	Inventor	Filing Date
	A28	5,754,332	5/19/1998	Crowley, Joseph M.	9/13/1996
	A29	5,786,875	7/28/1998	Brader et al.	3/15/1996
	A30	5,808,783	9/15/1998	Crowley, Joseph M.	9/13/1996
	A31	5,892,504	4/6/1999	Knapp, Alan G.	1/26/1994
	A32	5,978,052	11/2/1999	Ilcisin et al.	7/11/1997
	A33	6,005,791	12/21/1999	Gudesen et al.	3/2/1998
	A34	6,005,817	12/21/1999	Gudesen et al.	1/8/1998
	A35	6,055,180	4/25/2000	Gudesen et al.	2/12/1999
	A36	6,118,426	9/12/2000	Albert et al.	8/27/1998
	A37	6,120,588	9/19/2000	Jacobson, Joseph M.	9/23/1997
	A38	6,124,851	9/26/2000	Jacobson, Joseph M.	7/20/1995
	A39	6,177,921 B1	1/23/2001	Comiskey et al.	8/27/1998
	A40	6,219,160 B1	4/17/2001	Nordal et al.	3/25/1999
	A41	6,232,950 B1	5/15/2001	Albert et al.	8/27/1998
	A42	6,252,564 B1	6/26/2001	Albert; Jonathan D. et al	8/27/1998
	A43	6,422,687 B1	7/23/2003	Jacobson; Joseph M.	12/23/1999
	A44	6,445,374 B2	9/3/2002	Albert; Jonathan D. et al	3/12/2001
	A45	6,459,418 B1	10/1/2002	Comiskey; Barrett et al	8/27/1998
	A46	6,473,072 B1	10/29/2002	Comiskey; Barrett et al	5/12/1999
	A47	6,480,182	11/12/2002	Turner et al.	7/20/2001
	A48	6,504,524 B1	1/7/2003	Gates; Holly et al	3/8/2000
	A49	6,506,438 B1	1/14/2003	Duthaler; Gregg M. Et al	12/14/1999

## FOREIGN PATENT DOCUMENTS

Exam. Init.		Patent ID	Issue Date	Country Code	Filing Date	Abstract Only?	English Language?	Only Abstract In
	B1	EP 0 460 747 A2	12/11/1991	EP	5/31/1991		Yes	
	B2	EP 0 595 812 B1	5/11/1994	EP	7/15/1991		Yes	

EXAMINER

DATE CONSIDERED

**FORM PTO - 1449**  
**INFORMATION DISCLOSURE STATEMENT****ATTORNEY DOCKET NO.:** INK-109  
**APPLICANT:** Gates  
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**FILING DATE:** June 27, 2003  
**GROUP:** 2673**FOREIGN PATENT DOCUMENTS**

Exam. Init.	Patent ID	Issue Date	Country Code	Filing Date	Abstract Only?	English Language?	Only Abstract In
B3	EP 0 685 101 B1	12/6/1995	EP	1/31/1994		Yes	
B4	EP 0 717 446 A2	6/19/1996	EP	12/5/1995		Yes	
B5	EP 0 717 446 A3	2/6/1999	EP	5/12/1995	Yes	Yes	
B6	EP 0 889 425 A1	1/7/1999	EP	6/30/1997		Yes	
B7	EP 0 924 551 A1	6/23/1999	EP	12/18/1997		Yes	
B8	FR 2 693 005	12/31/1993	FR	6/26/1992			Yes
B9	JP 2000-322001	11/24/2000	JP	3/24/2000	Yes	Yes	
B10	JP 6089081	3/29/1994	JP	3/19/1993	Yes	Yes	
B11	WO 00/36666	6/22/2000	WO	12/15/1999		Yes	
B12	WO 01/65309 A2	9/7/2001	WO	3/1/2001		Yes	
B13	WO 02/45061 A2	6/6/2002	WO	11/29/2001		Yes	
B14	WO 93/02443	2/4/1993	WO	7/15/1991		Yes	
B15	WO 94/19789	9/1/1994	WO	1/31/1994		Yes	
B16	WO 95/07527	3/16/1995	WO	8/15/1994		Yes	
B17	WO 95/10107	4/13/1995	WO	9/26/1994		Yes	
B18	WO 97/01166	1/9/1997	WO	6/24/1996		Yes	
B19	WO 97/04398	2/6/1997	WO	7/19/1996		Yes	
B20	WO 97/48009	12/18/1997	WO	6/12/1997		Yes	
B21	WO 98/03896	1/29/1998	WO	8/20/1996		Yes	
B22	WO 98/41898	9/24/1998	WO	3/6/1998		Yes	
B23	WO 98/55897	12/10/1998	WO	6/5/1998		Yes	
B24	WO 98/58383	12/23/1998	WO	6/17/1998		Yes	
B25	WO 99/10768	3/4/1999	WO	8/27/1998		Yes	
B26	WO 99/10769	3/4/1999	WO	8/27/1998		Yes	
B27	WO 99/12170	3/11/1999	WO	8/13/1998		Yes	

**EXAMINER****DATE CONSIDERED**



<b>FORM PTO - 1449</b> <b>INFORMATION DISCLOSURE STATEMENT</b>	ATTORNEY DOCKET NO.:	<b>INK-109</b>
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	GROUP:	<b>2673</b>

**FOREIGN PATENT DOCUMENTS**

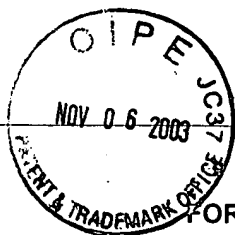
Exam. Init.		Patent ID	Issue Date	Country Code	Filing Date	Abstract Only?	English Language?	Only Abstract In
	B28	WO 99/14762	3/25/1999	WO	8/28/1998		Yes	
	B29	WO 99/14763	3/25/1999	WO	8/28/1998		Yes	
	B30	WO 99/47970	9/23/1999	WO	3/18/1999		Yes	
	B31	WO 99/53371	10/21/1999	WO	4/9/1999		Yes	
	B32	WO 99/59101	11/18/1999	WO	5/12/1999		Yes	
	B33	WO 99/65011	12/16/1999	WO	6/7/1999		Yes	
	B34	WO 99/65012	12/16/1999	WO	6/7/1999		Yes	
	B35	WO 99/67678	12/29/1999	WO	6/22/1999		Yes	

**OTHER ART, JOURNAL ARTICLES, ETC.**

Exam. Init.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C1	Beilin, et al.; 8.5: 2000-Character Electrophoretic Display; 1/1/1986; 136-40; SID 86 Digest
	C2	Blazo, S.F.; 10.1/9:00 A.M.: High Resolution Electrophoretic Display with Photoconductor Addressing; 1/1/1982; 92-93; SID 82 Digest
	C3	Bohnke et al.; Polymer-Based Solid Electrochromic Cell for Matrix-Addressable Display Devices; 12/1/1991; 3612-17; Journal of the Electrochemical Society; 138(12)
	C4	Chiang, A.; Reduction of Lateral Migration in Matrix Addressed Electrophoretic Display; 1/1/1980; 73-74; " Xerox Disclosure Journal; 5(1)
	C5	Comiskey et al.; 7.4L: Late-News Paper: Electrophoretic Ink: A Printable Display Material; 1/1/1997; 75-76; SID 97 Digest
	C6	Comiskey et al.; An Electrophoretic Ink for All-Printed Reflective Electronic Displays; 7/16/1998; 253-55; Nature; 394
	C7	Dalisa, A. L.; Electrophoretic Display Technology; 7/1/1977; 827-34; IEEE Transactions on Electron Devices; 24(7)
	C8	Drzaic et al; A Printed and Rollable Bistable Electronic Display; 1/1/1998; 1131-34; 1998 SID International Symposium, Digest of Technical Papers; 29
	C9	Duthaler, G.M.; Design of a Drop-On-Demand Delivery System for Molten Solder Microdrops; 1/20/1995; 1-73; Thesis, Department of Mechanical Engineering, Massachusetts Institute of Technology

**EXAMINER****DATE CONSIDERED**





FORM PTO - 1449

## INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: **INK-109**  
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## OTHER ART, JOURNAL ARTICLES, ETC.

Exam. Init.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C10	Hopper, et al.; An Electrophoretic Display, Its Properties, Model, and Addressing; 8/1/1979; 1148-52; IEEE Transactions on Electron Devices; Ed-26, No. 8
	C11	Jacobson et al.; The Last Book; 1/1/1997; 457-463; IBM Systems Journal; 36(3)
	C12	Kobayashi et al.; A Novel Photo-Addressable Electronic Paper Using Organic Photoconductor utilizing Hydroxy Gallium Phthalocynine as Charge Generation Material; 1/1/2001; 1731-32; Asia Display/IDW '01; AMD4-5 (Late-News Paper)
	C13	Lee, L. L.; Fabrication of Magnetic Particles Display; 7/1/1977; 283-88; Proceeding of the S.I.D.; 18(3, 4)
	C14	Lee, L. L.; A Magnetic-Particles Display; 7/1/1975; 177-184; Proceeding of the S.I.D.; 16(3)
	C15	Murau, P.; 9.4: Characteristics of an X-Y Addressed Electrophoretic Image Display (EPID); 1/1/1984; 141; SID 84 Digest
	C16	Ota et al.; Electrophoretic Display Devices; 1/1/1975; 145-48; Laser 75 Optoelectronics Conference Proceedings
	C17	Quon, W. S.; Multilevel Voltage Select (MLVS): A Novel Technique to X-Y Address an Electrophoretic Image Display; 8/1/1977; 1121-23; IEEE Transactions on Electron Devices; 24(8)
	C18	Sheridon et al.; 10.2/9:25 A.M.: A Photoconductor-Addressed Electrophoretic Cell for Office Data Display; 1/1/1982; 94-95; SID 82 Digest
	C19	Shiffman et al.; An Electrophoretic Image Display with Internal NMOS Address Logic and Display Drivers; 1/1/1984; 105-15; Proceedings of the SID; 25(2)
	C20	Singer et al.; An X-Y Addressable Electrophoretic Display; 7/1/1977; 255-66; Proceeding of the S.I.D.
	C21	Toyama et al.; P-43: An Electrophoretic Matrix Display with External Logic and Driver Directly Assembled to the Panel; 1/1/1994; 588-90; SID 1994 Digest
	C22	Vaz et al.; Dual Frequency Addressing of Polymer-Dispensed Liquid-Crystal Films; 6/15/1989; 5043-49; Journal of Applied Physics; 65(12)
	C23	Wisnieff, R.; Printing Screens; 7/16/1998; 225, 227; Nature; 394
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>